

Extending Auto Navigation



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Extending Auto Navigation

What is Auto Navigation

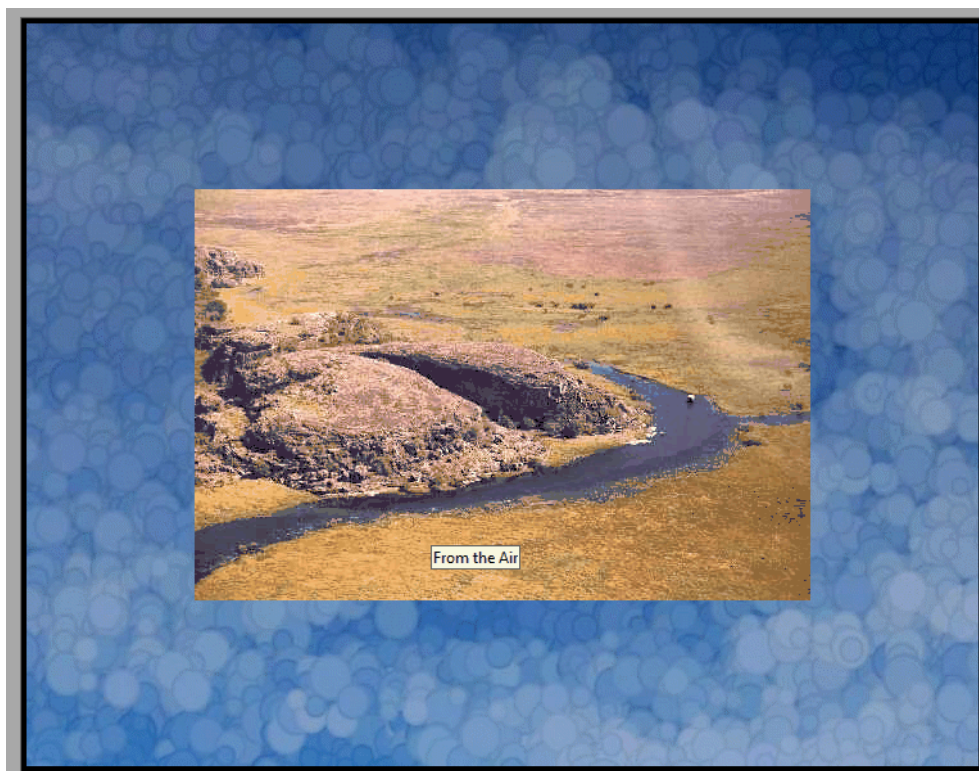
Auto Navigation allows you to let KnowledgePresenter set up navigation controls, indexes, thumbnails, and other options for you. It has the following benefits:

- Saves the developer having to create navigation items.
- Allows larger lessons to be run on smaller screens, as the navigation buttons will always be visible, and only the content will scroll.
- Provides consistency between lessons.
- Automatically determines when and if navigation buttons like back, forwards, etc should be enabled or disabled.
- Allows the automatic generation of indexes and thumbnail indexes, which can scroll automatically.
- User can add objects to any step in KnowledgePresenter to disable back, forwards, or other navigation events.

We will, in this paper, look at how simple this is to use, but then also see how you can customize the appearance and operation of Auto Navigation.

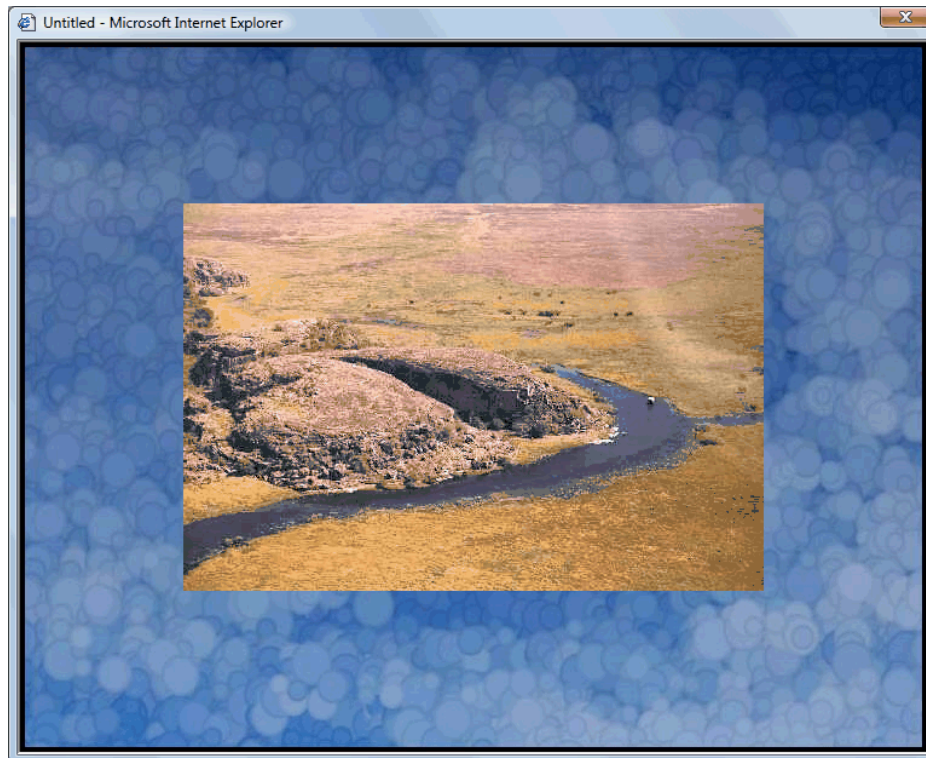
Using Auto Navigation

Take the following lesson as an example. We've loaded in six images, each of which appears on a separate step. We have added no navigation of any sort.



If we were to preview this now, it might look like this.

Extending Auto Navigation



Note that there is no way for the user to navigate to further steps.

Below, we use the **Canvas / Auto Navigation Settings** command to turn Auto Navigation on.

Auto Navigation Settings

Options

- ☐ Use Auto Navigation
- ☒ Use Wide Screen Auto Navigation
- ☐ Do Not Use Auto Navigation

Thumbnails

- ☐ No Thumbnails
- ☒ Thumbnails for Every Step
- ☐ Thumbnails for Indexed Steps

Links, Attachments, and More Info

- ☐ Show More Info Link
- ☐ Include Attachment

Communication Options

Chat ID:

- ☐ Allow Live Chat
- ☐ Allow Live Email
- ☐ Allow File Uploads
- ☐ Allow Blogging

Options

- ☒ Create Navigation Menu for Indexed Items
- ☐ Number Navigation Menu
- ☒ Show Print Button
- ☒ No Moving Forwards Unless User Completes Scored Questions.
- ☒ Show Back Button
- ☐ Allow User to Restart
- ☒ Allow User to Add Comments
- ☒ Allow User to View Results
- ☒ Allow User to Print Results
- ☐ Allow User to Skip Questions (Quizzes Only)
- ☒ Display Step Numbers
- ☐ Allow Complete Navigation After Pass, or Complete
- ☒ Allow User to Hide/Show Audio if Applicable

Auto Navigation Style

Style:

Left Panel Width:

Button Height:

OK

Cancel

Language...

Preview...

Help

Auto Navigation controls are not visible on the canvas, but will be visible when the lesson is exported or previewed.

Extending Auto Navigation

Auto Navigation Dialog Box Settings

Use Auto Navigation / Use Wide Screen Auto Navigation / Do Not Use Auto Navigation.

Fairly self explanatory - if you want to use Auto Navigation ensure that **Use Auto Navigation** is selected. For wide screen, where the index and thumbnails can appear down the left of the screen, ensure the Use **Wide Screen Auto Navigation** option is selected. To turn it off, ensure that **Do Not Use Auto Navigation** is not selected.

Thumbnails

No Thumbnails - no thumbnails or thumbnail menus are created.

Thumbnails for Every Step - thumbnails are generated for every step in your lesson, and a thumbnail navigation menu is created.

Thumbnails for Indexed Steps - thumbnails are generated for every step that has an indexed item on it. For more information on making objects indexed, see Include in Index.

Thumbnails will look slightly different depending on whether the Use Wide Screen Navigation option is selected in this dialog box. With Wide Screen Navigation, the menu appears on the left of the screen:

Without Wide Screen Navigation, the thumbnail menu only appears when the Thumbnail button is selected, from the bottom of the screen.

Show More Info Link

In the text box below this option, you can enter a valid URL that the user can visit to gain more information on the lesson, or current topic. For example, if <http://www.knowledgepresenter.com> were entered here, the More Info button will appear, and when clicked on, will launch this URL in a new window.

Include Attachment

In the text box below this option, you can enter a valid URL that the user can launch. For example, if <http://www.knowledgepresenter.com/lesson.pdf> were entered here, the Attachment button will appear, and when clicked on, will launch this URL in a new window.

Create Navigation Menu for Indexed Items

If this option is selected, any objects that are indexed (see Include in Index) will be included in an index the user can use to navigate the lesson. If no items are indexed in your lesson, no such index will appear in the Auto Navigation controls.

This index will look slightly different depending on whether the Use Wide Screen Navigation option is selected in this dialog box. With Wide Screen Navigation, the menu appears on the left of the screen:

Without Wide Screen Navigation, the index menu only appears when the Index button is selected, from the bottom of the screen.

Number Navigation Menu

Select this option to ensure that items in the navigation menu (indexed objects) are numbered automatically.

Show Print Button

Adds a Print button to the navigation controls, so that the user can print the current screen.

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No Moving Forwards Unless User Completes Scored Questions

If this option is selected, then whenever the lesson gets to a point where a scored question (part of a test) is being presented to the user, the user cannot use the Auto Navigation next step button to move on - they must answer the question on screen.

Show Back Button

Adds a Back button to the navigation controls, so that the user can move to the previous step.

Allow User to Restart

Adds a Restart button to the navigation controls, so that the user can restart the lesson.

Allow User to Add Comments

Adds a Comments button to the navigation controls, so that the user can add a comment to the lesson. Note that this comment will only be recorded if the lesson was launched from a Learning Management System that supports this feature. KP Learner Manager supports this feature.

Allow User to View Results

Adds a Show Score button to the navigation controls, so that the user can view their current or final score and results on screen.

Allow User to Print Results

Allows the user to print any results that they may make visible on screen. This option requires that the option above be selected as well.

Allow User to Skip Questions (Quizzes Only)

If creating a multiple choice quiz, this option adds a Skip Button, allowing the user to skip the current question and come back to it later.

Display Step Numbers

Places step numbers in the titlebar of the exported lesson.

Allow Complete Navigation After Pass, or Complete

With this option selected, when the user first takes the lesson, all options are respected. So, if there is a scored question, or some of the Customizing Auto Navigation options are used (see below), these are respected. However, once the user has completed, or passed this lesson, they will, from that point, be able to move anywhere in the lesson without being prevented from doing anything.

Allow User to Hide/Show Audio if Applicable

With this option selected, the lesson will, if any objects are placed in a group called ReadAloud, be able to be hidden or shown. Any automatically generated ReadAloud text objects (see the Text Editing window) will be placed in this group.

Communication Options

KP also has a series of communication options you can add to an Auto Navigation lesson.

Chat ID

Currently, our Live Chat is in BETA. When released, you may be eligible for a Live Chat ID with your KP license. If you have a Live Chat ID, you enter it here to enable Live Chat in your lesson.

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Allow Live Chat

Select this option to enable Live Chat in your lesson.

Allow Live Email

Select this option to enable Live Email within the Live Chat application.

Allow File Uploads

The Live Chat application also includes the ability for users to upload files to be emailed to you - assuming you check this option.

Allow Blogging

If you have KP Learner Manager Enterprise Edition, version 2007, you can select this option to enable blogging with a lesson. A user can view, add to, create new and generally navigate around blogs, allowing various users and administrators to communicate directly.

Auto Navigation Style

In this area, you can select a new Auto Navigation Style. Several styles are available, and you'll see a small preview immediately.

Left Panel Width determines the width of the left-hand panel (where index and thumbnails appears in Wide Screen Navigation).

Button Height determines the high of the buttons used in Auto Navigation.

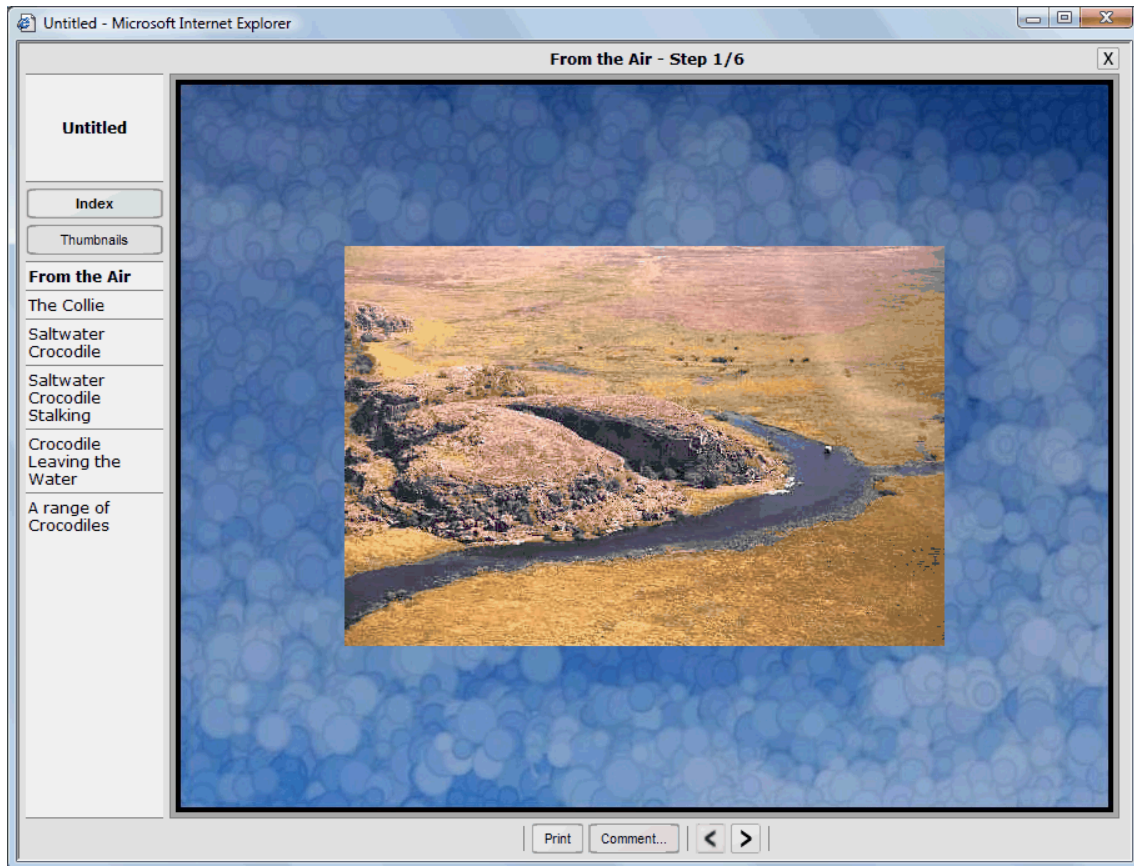
Customizing Auto Navigation Language and Other Strings

To edit the strings (text) and/or language used by the Auto Navigation features, use the **Language** button.

Extending Auto Navigation

What Auto Navigation Looks Like

Below, you can see what your lesson might look like when previewed. Below, we have indexed each item we want to appear in an index (by right-clicking on the object we want to appear in the index, and selecting the **Object Appears in Index** command), and we have selected *Wide Screen* Auto Navigation.



As you can see, navigation buttons have been added to the screen automatically, and an index appears at the left of the screen. The user can now use the Index, select the **Thumbnails** button to see thumbnail previews, and more.

Extending Auto Navigation

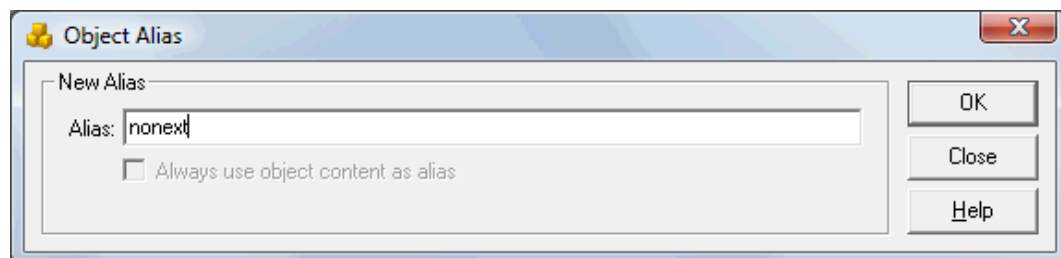
Controlling Navigation

There are things you can add to a lesson to control navigation further – on a step by step basis, if you wish.

For example, let's take step 1 in our lesson. We may want the Next button in the Auto Navigation buttons to be disabled here for some reason. To do this is simple. We simply create a hotspot somewhere on this step, and give it an alias of **nonext**.

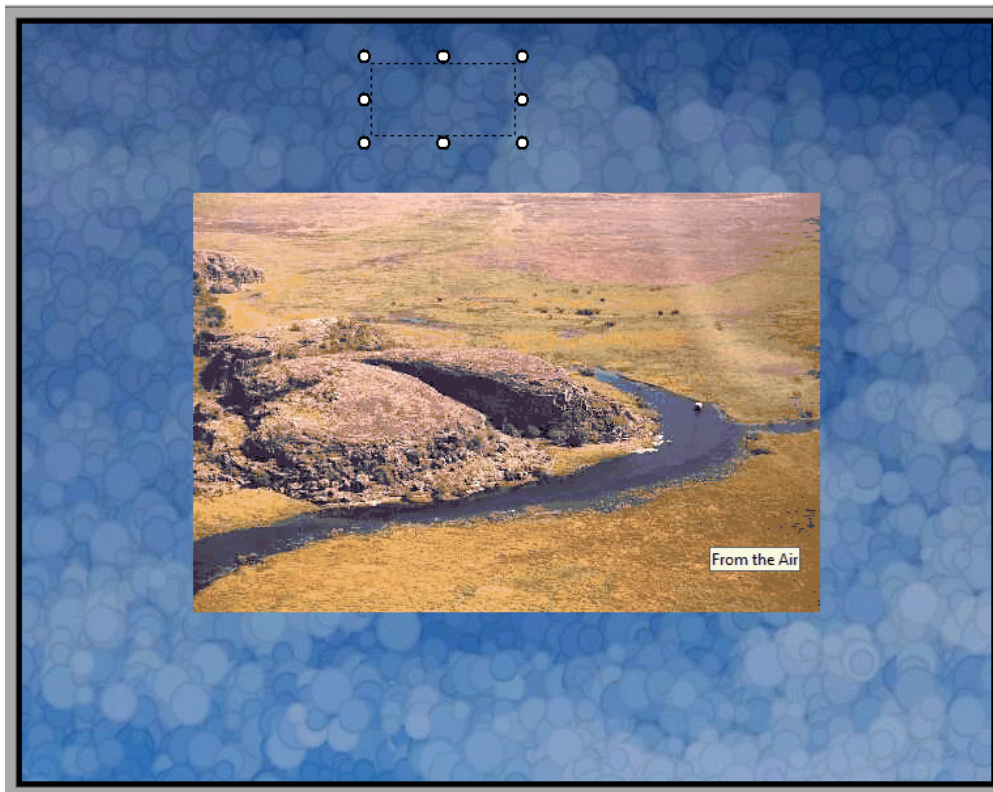


Above, we've created the hotspot.



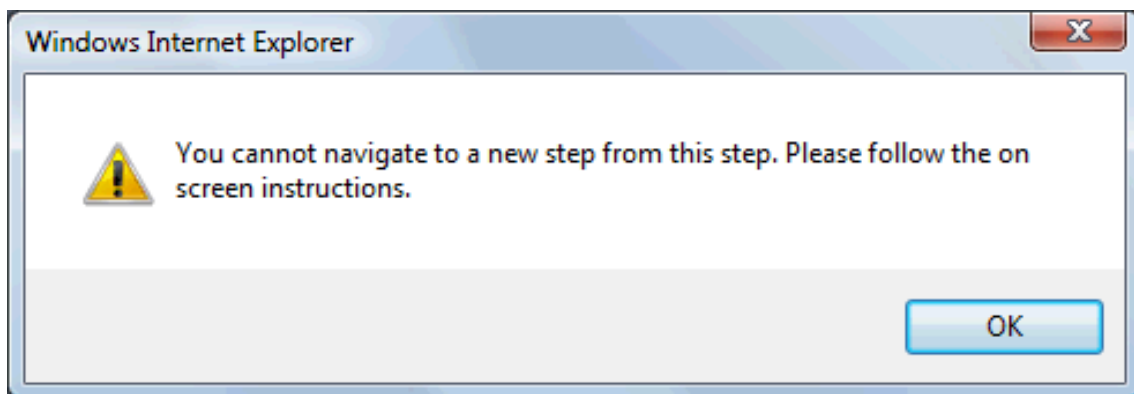
*Here, we've selected the **Objects /Alias** command, and given this hotspot the alias of **nonext**.*

Extending Auto Navigation



Finally, the hotspot now appears with the alias of NONEXT.

OK, so we've done this much. If we were to preview this step now, the next button in the Auto Navigation buttons would be disabled. The user will not be able to select it. And, should they try to move to another step using the Index on the left, this message will appear:



So, if you disable the Next button on this step, you need to add some sort of button on this screen that will allow the user to move forwards. Below, we've added a button to this first screen, and given this button an event (**Objects/Event** command), called **Go to Next Step**.

Extending Auto Navigation



Because we've added our own button, the user will not be able to move forwards to any other step in the lesson, unless they select the **Go to Next Step** button we created manually.

Because we only added the **nonext** to the first step, in this case, when the user goes to step 2, they will be able to use the Auto Navigation buttons to move around. There is nothing to stop you copying this hotspot to other steps to get the same result on these other steps.

Extending Auto Navigation

Variations on a Theme

Above, we used a hotspot called **nonext**. There are actually several variations of this:

- **nonext** – as above, will not allow the user to move forwards from this step, even via the Index.
- **noback** – does not allow the user to move backwards from this step, even via the index.
- **nonav** – does not allow the user to move backwards or forwards from this step, even via the index.

Extending Auto Navigation

Changing Navigation Timing

There is another variation on this theme.

What if you want the user to be able to move forwards from this step, but only after, say, ten seconds? Perhaps you have some information on this step that takes ten seconds to animate, or appear, and you want to make sure the user sees all of this step before moving on.

To do this is simple.

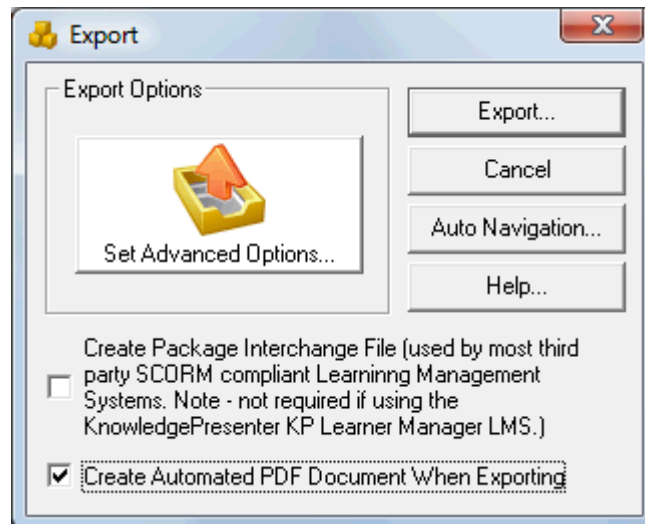
We use the same basic steps as above, except that instead of naming the hotspot **nonext**, **noback**, or **nonav**, we add something to it – the timing. So, if a hotspot was called **nonext010**, this means the user will only be able to move forwards using the Auto Nav buttons after ten seconds have elapsed. **nonext001** would allow the user to move forwards after 1 second. **nonav100** would allow the user to start navigating after 100 seconds have elapsed.

Extending Auto Navigation

Link a PDF Document to the Auto Navigation Print Button

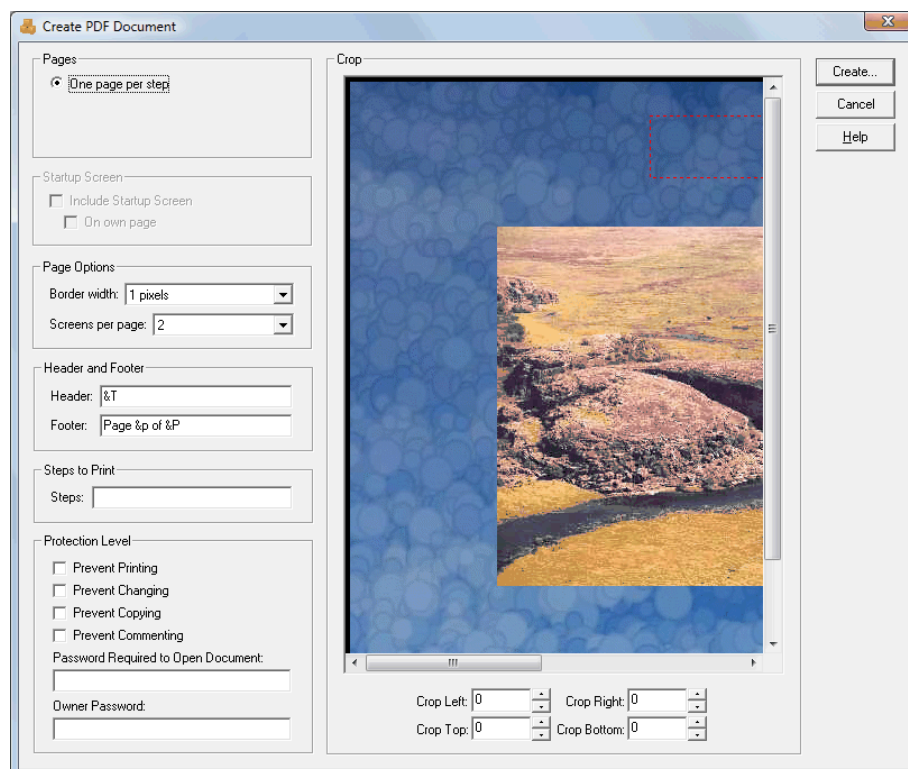
Normally, if you allow the *Print* button to be displayed using the Auto Nav controls, the user will be able to print the current screen. But what if you want them to print the entire document? You can automatically generate a PDF document that will be linked to the *Print* button.

To do this, you merely select an option during export.



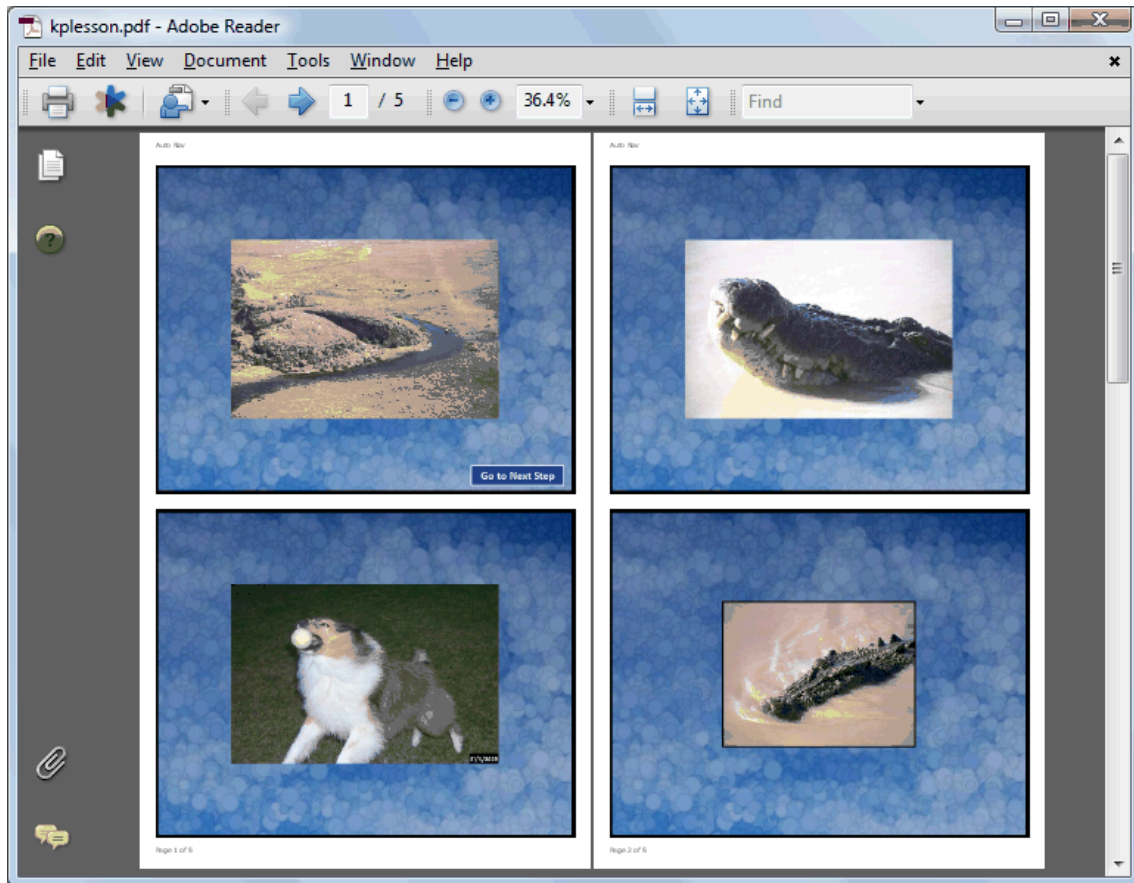
Above, we've selected the **Create Automated PDF Document When Exporting** option. This dialog box appears after you select the **File / Export Lesson or Presentation** command, and then the **Standard Export, With or Without Scoring, or a Survey** option.

When this is done, towards the end of the export, you'll see this dialog box:



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In this dialog box, you can set a few options relating to how the PDF document is generated. If you leave the default settings, it will simply create a PDF document of the current lesson – but you can add headers/footers, decide which pages to print, and how many steps per page, etc. Then, when export is complete, the *Print* button in the Auto Nav buttons will link to a PDF document, like the one seen below:

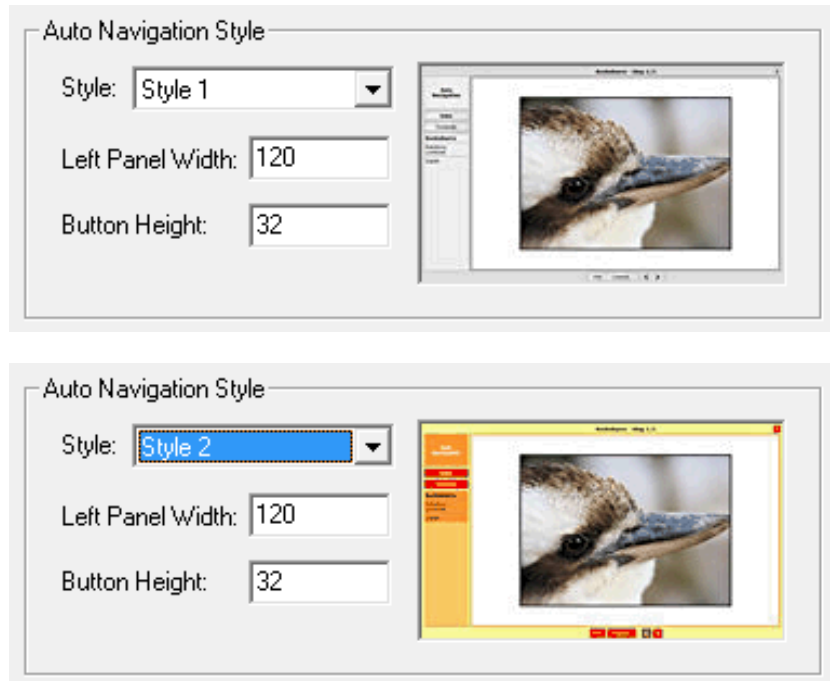


The user can then print this if they wish.

Extending Auto Navigation

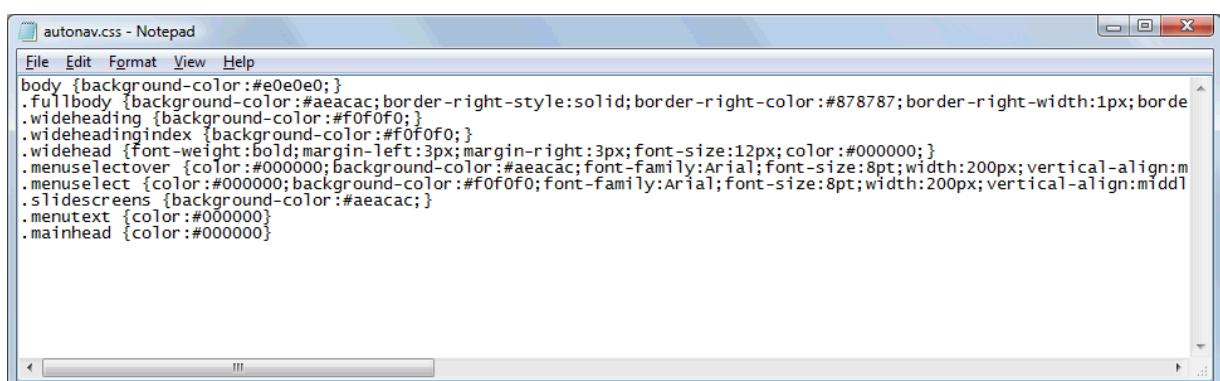
Editing Auto Navigation CSS Styles

When you set Auto Navigation, you do get to select from one of the default styles, which provide basically a different color set for pages. Below are a few examples.



But you can modify the appearance of a lesson further.

Once an Auto Navigation lesson has been exported, a CSS stylesheet called **autonav.css** will appear in the final export folder. This can be modified, if you wish, to change the appearance of the Auto Navigation lesson. To do this, you do need to understand CSS styles, but you can changes fonts, styles, and colors of almost all elements. Below you can see how this might be edited in notepad.

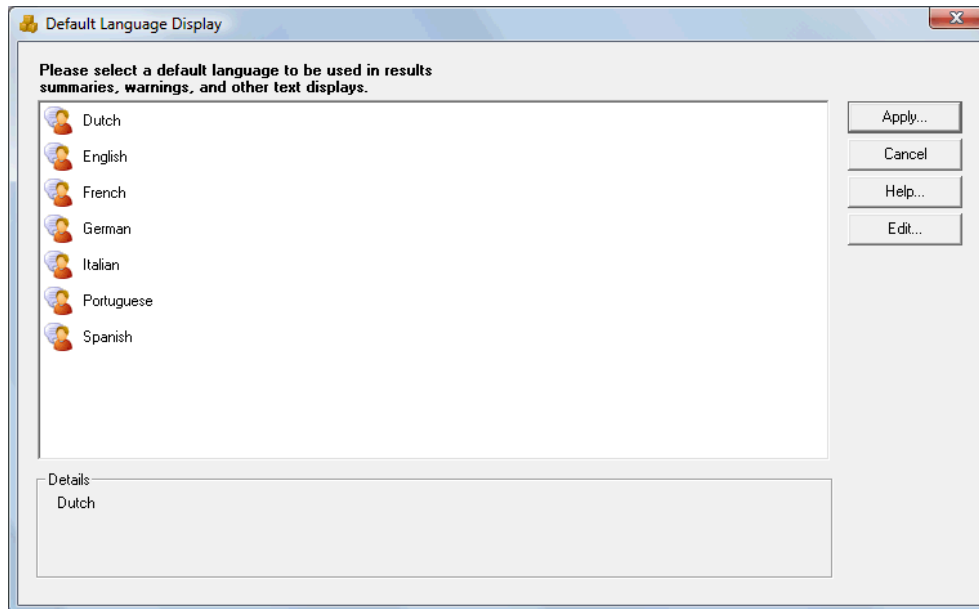


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Customizing all Text and Strings

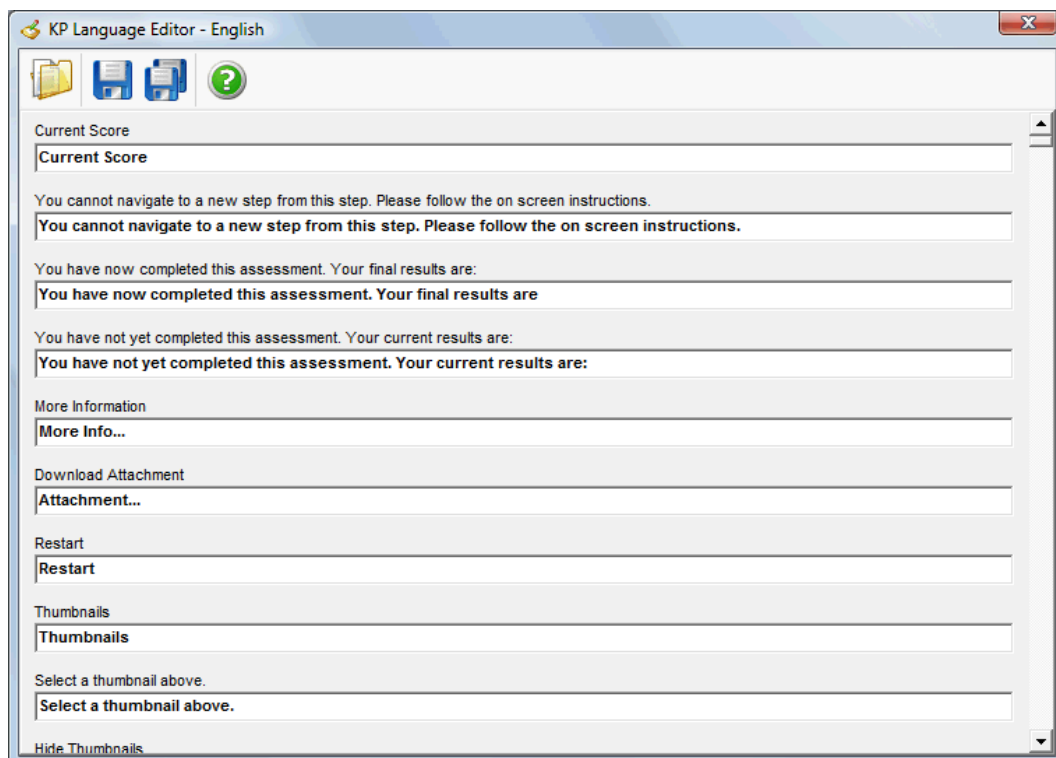
If you want to change the text that appears, such as *Index*, or *Thumbnails*, or *Next*, you can use the **Language** button in the Auto Navigation dialog box (**Canvas / Auto Navigation Settings** command).

This allows you first, to select a preset language set.



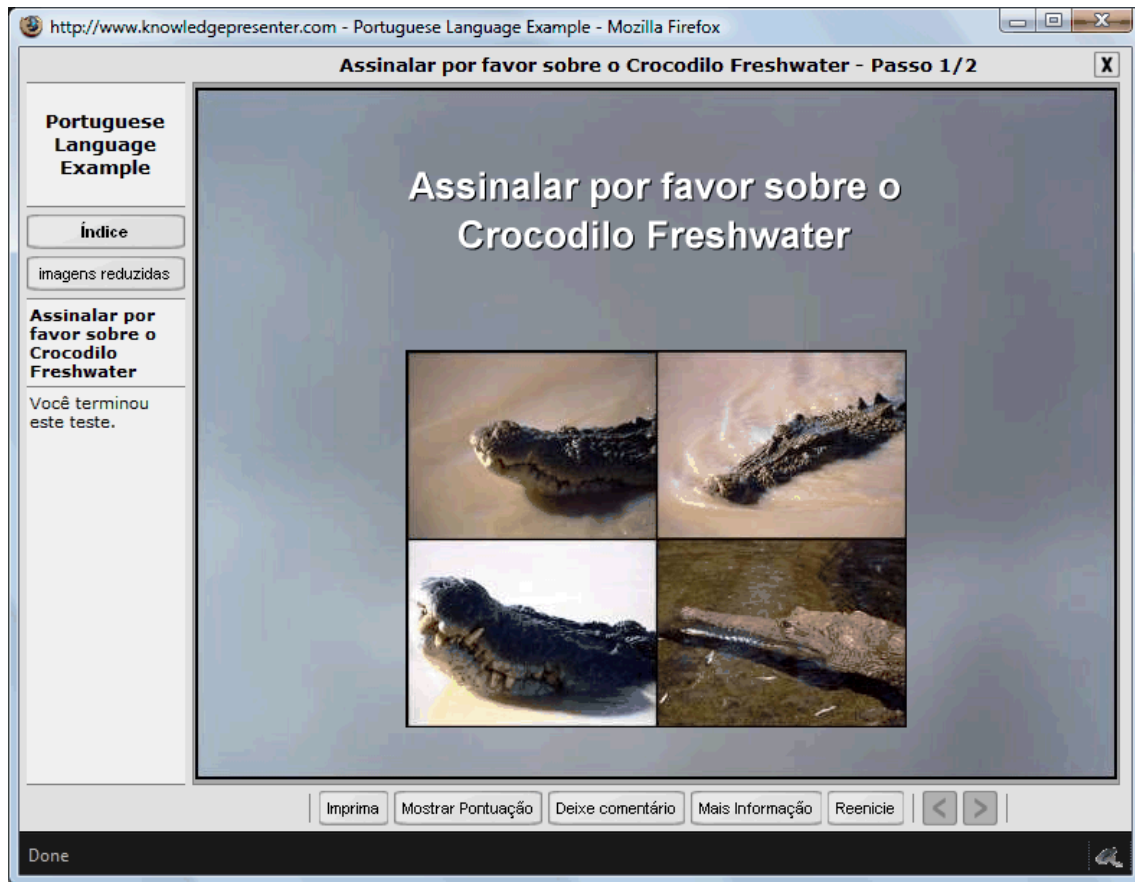
But, once a language set is selected, you can then edit that language set.

Below, we selected **English**, and then selected the **Edit** button.



Extending Auto Navigation

In the dialog box above, you can then edit any system string you like, and save it as a new language set - and apply it to the current lesson. Below is an example that uses the **Portuguese** language preset.

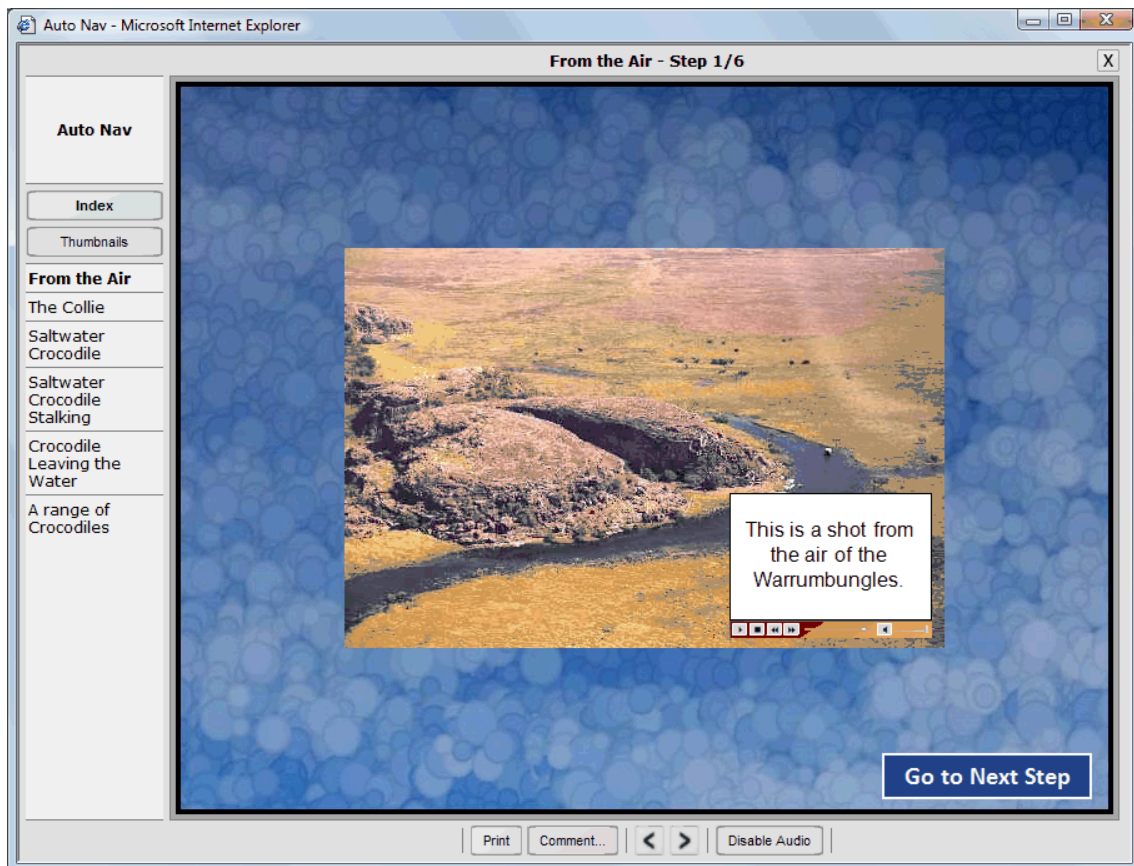


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Hiding and Showing Audio

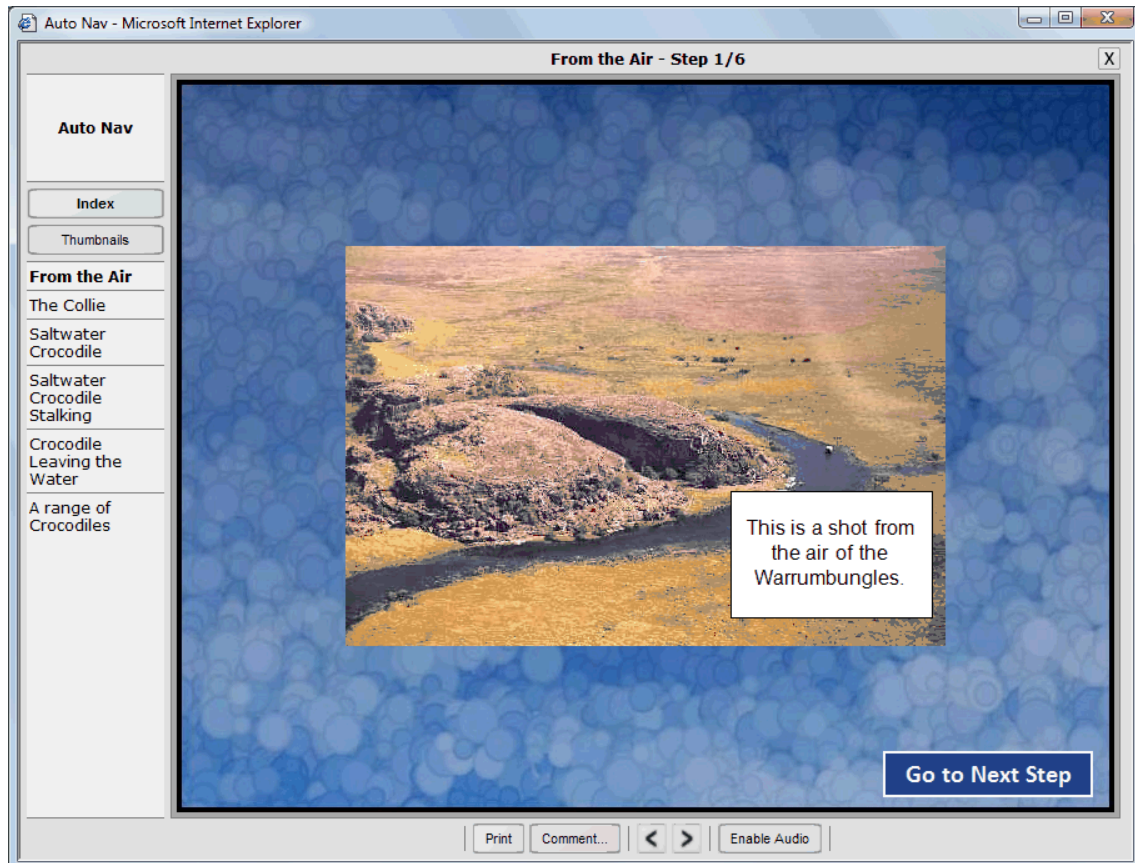
If you use **Read Alouds** (search Help for this feature), KP will automatically create a series of computer generated audio objects that relate to selected text objects. This gives the user the option to read, or listen to these text objects. Because not all users may wish to do this, whenever **Read Alouds** are used, a button is added to the Auto Navigation controls by default. This button will be default read **Disable Audio**. When audio objects are hidden, it will read **Enable Audio**.

This setting is saved in user cookies. So if they hide audio once using the **Disable Audio** button, it will remain hidden until they select **Enable Audio** – even when they close this lesson, and open this or another lesson again.



Above, we have made an audio object that uses Read Alouds. You can see the audio playbar below the main text on this screen. You can also see the Disable Audio button in the Auto Nav toolbar.

Extending Auto Navigation



Above, we've selected the **Disable Audio** button. The audio object disappears from all steps, and the button changes to **Enable Audio**, which can then be used to show the audio again.

Customizing Hiding and Showing Audio

You can even use this feature if you are manually inserting audio. All you need to do is to create a group (see *Groups* in the Help) called **ReadAloud**. Any object you add to this group – whether in fact it be audio or not – will be alternately hidden and shown when the **Enable Audio** / **Disable Audio** buttons are used.

This allows you to add your own manual voice overs, or soundtracks, and still allow the user to turn the audio on or off automatically.

Extending Auto Navigation

Adding Your Own Buttons to Auto Navigation

This is a brand new and very powerful new feature of Auto Navigation.

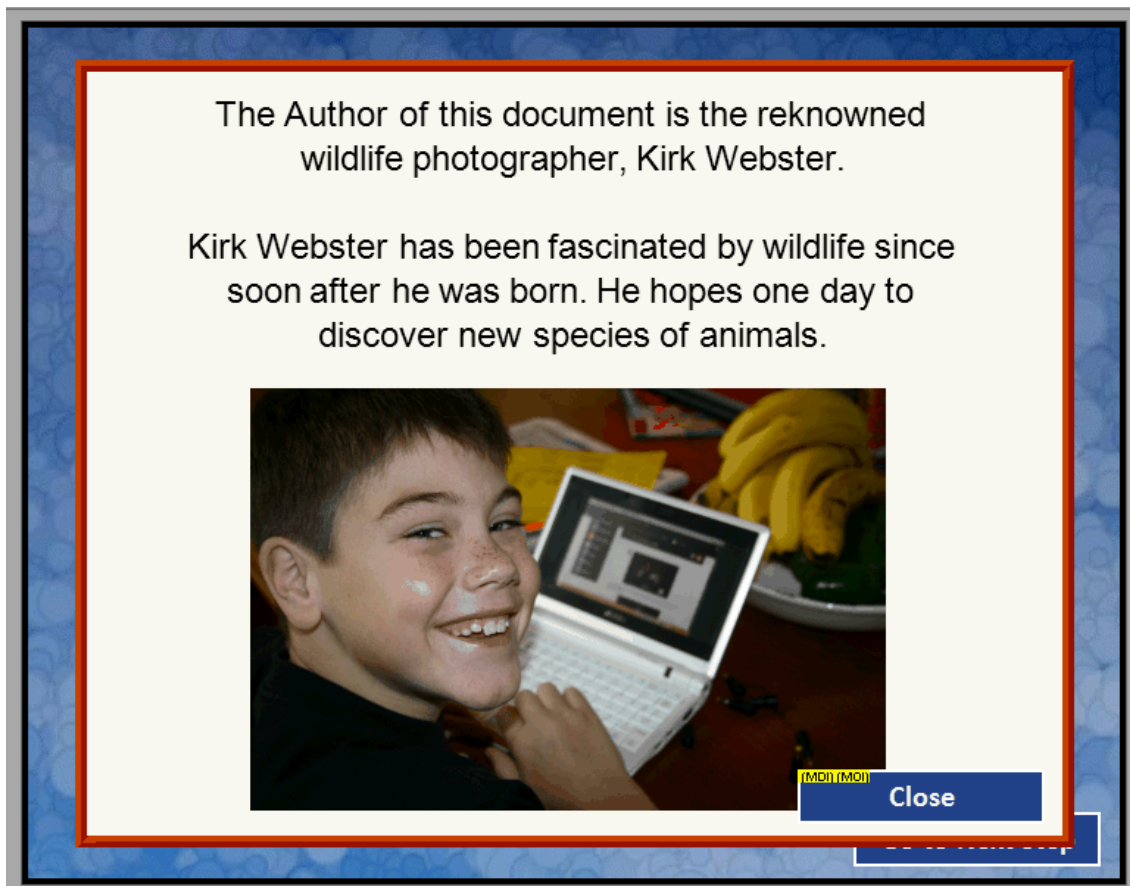
It allows you to add your own buttons to the Auto Nav button toolbar. It requires knowledge of how to create and use **Groups** in KP lessons (see *Groups* in the Help).

If you are familiar with groups in KP, you will know that you can create a group, and add objects to that group. You can then *hide* or *show* that group in KP, and allow users to hide or show this group of objects as they are running lessons.

Let's use a simple example to show you what we mean here. Let's say we want to add an **About the Author** button to the Auto Nav toolbar.

Our first step is to create a group called **AUTONAV_About the Author**. This is the same as any normal group, but the name of the group simply starts with **AUTONAV_**.

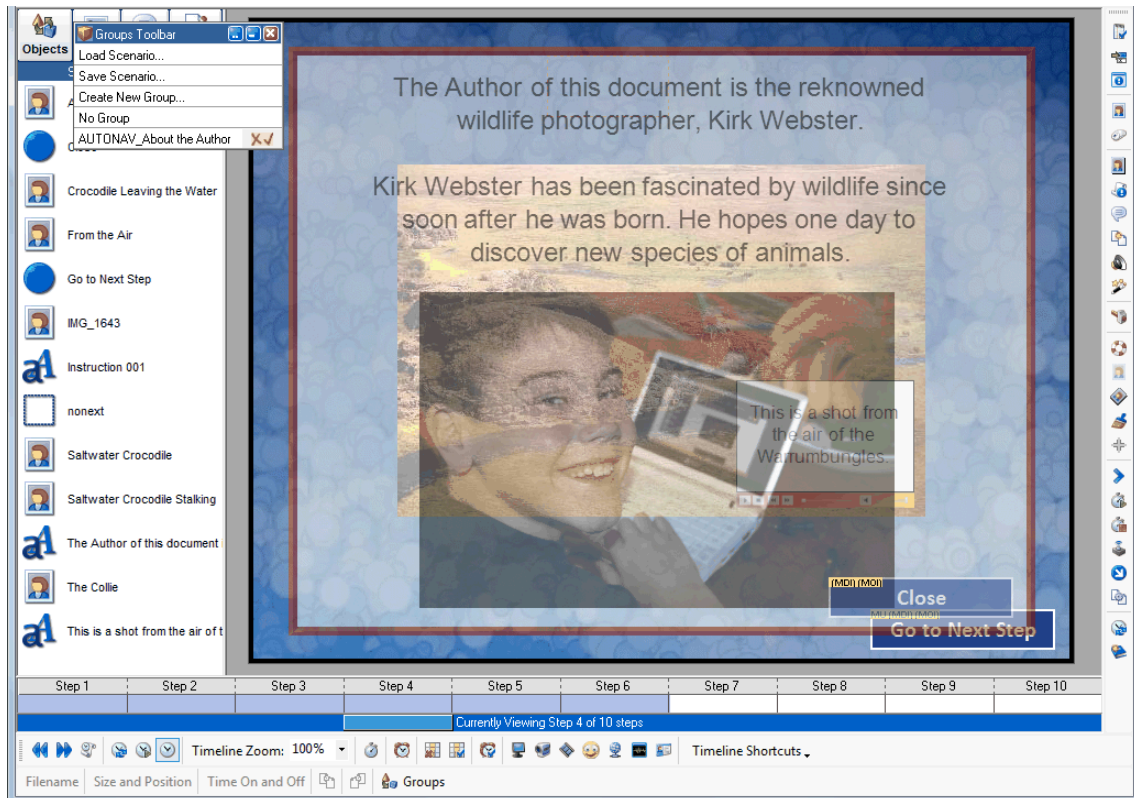
We then add some objects to this group. In the example below, we've create a few objects that represent what we want the user to see when they click on the **About the Author** button.



We then create the group called **AUTONAV_About the Author**, and add these objects to the group.

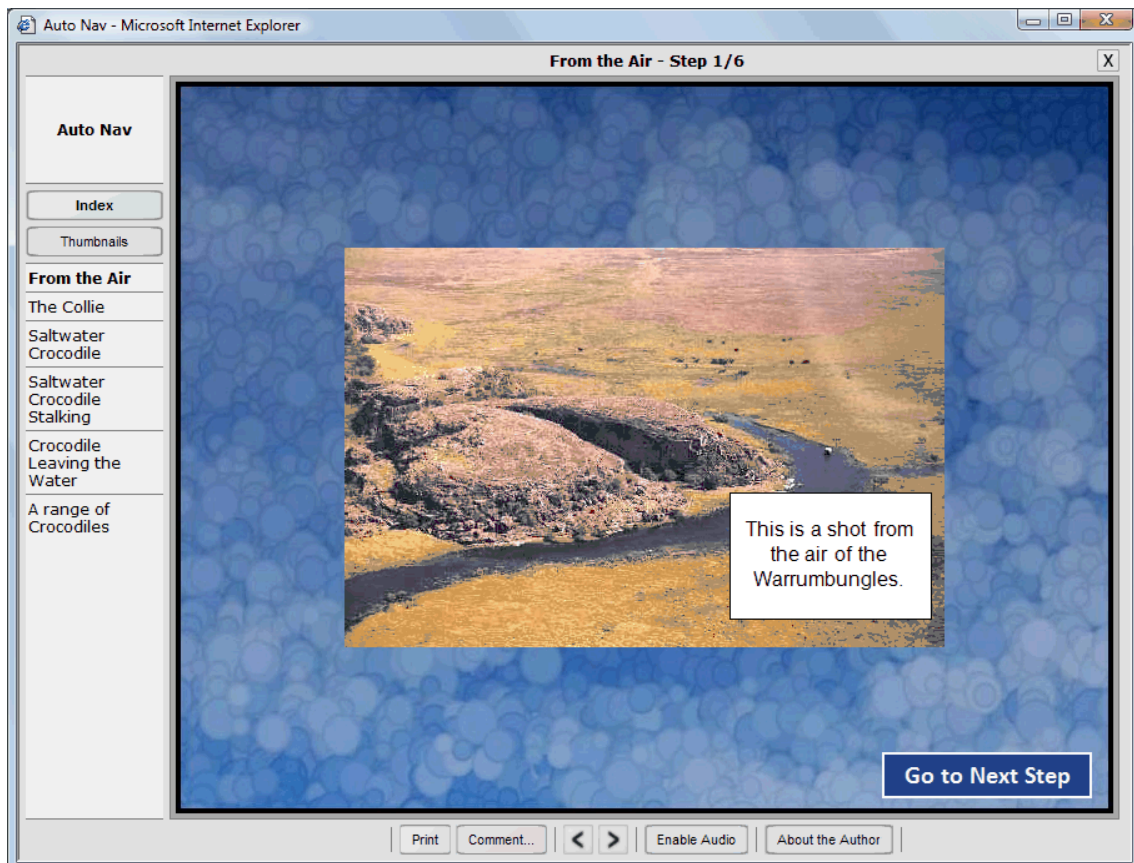
Finally, we use the **Groups** toolbar to set the properties to this group to **Initially Hide Group**. This ensures that this group of objects is not initially visible when the lesson starts.

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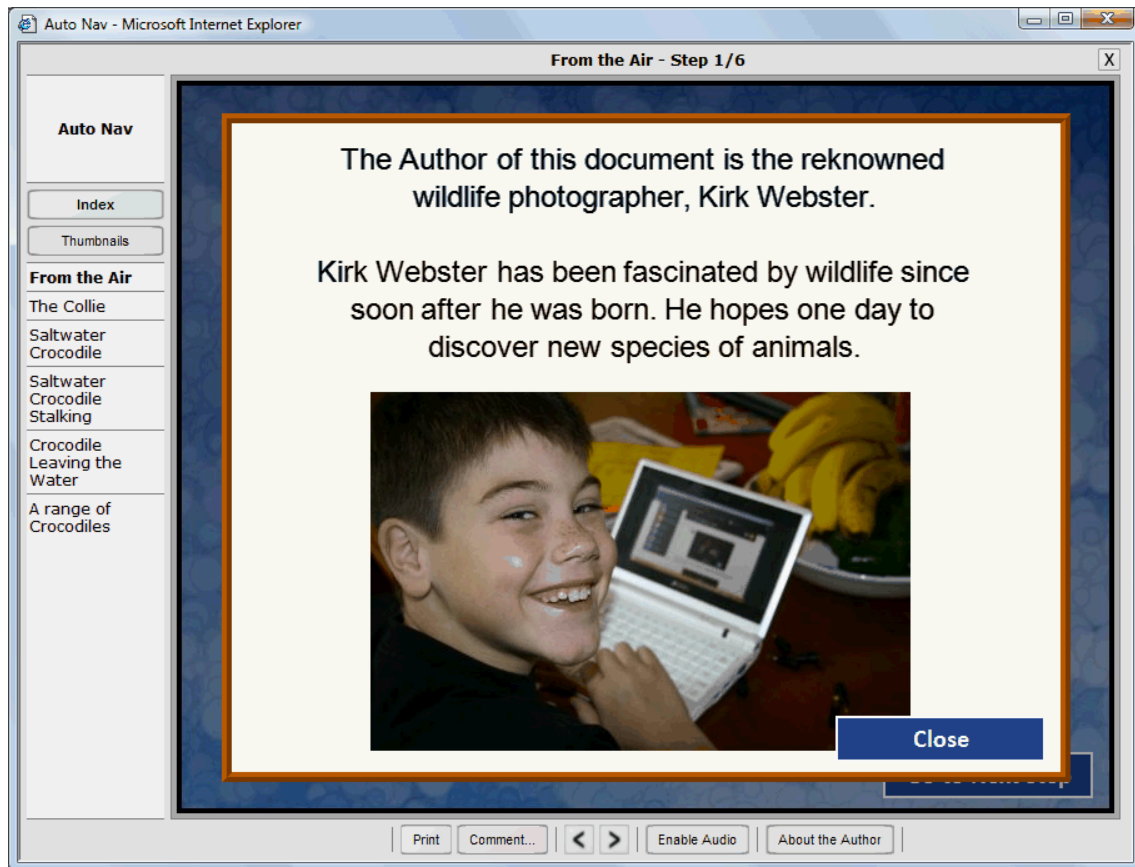
When we set a group property to **Initially Hide Group**, the group objects become semi-transparent.

It is now all done. When we export or preview this lesson, here is how it will look.



Extending Auto Navigation

Above, you can see the **About the Author** button has been added to the Auto Nav buttons. If the user was to click on this, below you will see what happens.



The user can either hide this group using the *Close* button (because we created this object with the properties to hide this group when clicked on), or when they select the **About the Author** button again. When the user changes steps, and this group is still visible, the group will be hidden.

You can do this with as many groups as you like – as long as they can fit in the Auto Nav toolbar area.

Technical Notes on Custom Buttons

Here are a few technical notes on how this works for those who have used groups a bit before.

- The group that is shown using this button is shown exclusively. This means that all other buttons and objects on the current step are not able to be interacted with until this group is hidden.
- This only shows the group on the current step. It does not have the functionality of the event in KP that allows you to show a group permanently, which means it will stay visible until specifically hidden.
- You can set the properties of the group(s) you create to **Maintain Timeline Position**, if you wish. Whether this option is selected in the group properties does not matter, it will work both ways.
- If **Maintain Timeline Position** is set for a group used in this fashion, when a step is reached where there are no objects in this group that can be shown, the button will be disabled.

Extending Auto Navigation

Using NOT (Not_) Groups

Another new feature of KPV7 (and this was introduced after initial release), is the **Not_** group feature.

Let's assume you have a group you have created called **English**. You may incorporate this group into other events, such as *Show Group*, *Show Group Permanent*, *Hide Group*, etc. This allows the user to hide or show these groups as required.

Now let's assume you also have a group called **Not_English**. Because this has the same name as the group called English, except with the **Not_** prefix, it has unique properties.

Whenever the group called **English** is shown, the group call **Not_English** is hidden. If the group called English is shown, then the group called **Not_English** is shown, and vice versa.

This allows you have groups which are mutually exclusive, and this mutual exclusivity occurs automatically.

When using this feature, ensure that the case for each group is the same, and the case used for the **Not_** prefix is exactly as appears here – **NOT_** will not work, nor will **not_**.